Saskatchewan
Learning

Science 10:
A Bibliography

Recycled Paper

2005

Science 10:
A Bibliography

Prepared by:
Instructional Resources Unit
Curriculum and Instruction Branch
Saskatchewan Learning
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Science 10: A bibliography

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Foreword

This bibliography includes a selected listing of learning resources to support the Science 10 Curriculum. These learning resources were recently evaluated by Saskatchewan educators.

The Instructional Resources Unit of the Curriculum and Instruction Branch provides support for implementation of Saskatchewan curricula by co-ordinating evaluation of learning resources to support curricula. The recommended learning resources are annotated and include suggested uses.

The materials in this bibliography are offered only as suggestions; teachers are encouraged to preview and select other applicable learning resources.

Saskatchewan Learning has provided one copy of this bibliography to every Secondary Level school in the province. Additional copies are available from Curriculum Distribution Service, formerly known as the Learning Resources Distribution Centre.

Curriculum Distribution Service can be contacted at:

PO Box 650
REGINA SK S4P 3A3
Ph: (306) 787-5987
Fax: (306) 787-9747
E-mail: curriculum.orders@sasked.gov.sk.ca.

Please note that this document may be photocopied, and is also available on the Saskatchewan Learning website at the following address:

www.sasklearning.gov.sk.ca/branches/curr/iru/onlbib.shtml

Resource-Based Learning

Steps to a Multiresource Approach to Teaching Science 10

The learning resources in this bibliography support Saskatchewan Learning's philosophy of Resource-based Learning in which the curriculum is supported by a variety of resources. This approach provides students with opportunities to interact with a wide range of current media in a variety of learning situations. The Science 10 Curriculum will be strengthened using resources that reflect local, regional, and provincial contexts. Teachers are encouraged to draw upon the expertise of human resources within the community. Often these people are able to provide the local context for exploring science concepts from the curriculum.

Background Review: Selection Policy and Criteria for Selection

The learning resources in this bibliography are recommended to support Science 10; however, it remains the responsibility of classroom teachers, in consultation with teacher-librarians, to preview and select learning resources. Selection should be based on the philosophy and objectives of the curriculum, students' prior knowledge and experience, students' interests and abilities, as well as the community context.

Also, learning resources should be considered in terms of the following characteristics:

- accuracy
- relevance to current issues
- appropriate reading level
- diversity of instructional approaches.
- adaptability
- equity regarding gender, age, and race
- country of origin
- cultural relevance and accuracy
- literary quality.

Several Saskatchewan Learning publications available from Curriculum Distribution Service provide further assistance in the selection process. These include the following:

Diverse Voices: Selecting Equitable Resources for Indian and Métis Education, 1995 – suggests strategies for recognizing and dealing with bias in learning resources. (Order no. 1901)

Learning Resource Centres in Saskatchewan: A Guide for Development, 1988 – provides guidance for developing a selection policy and suggests criteria for selection. (Order no. 5239)

Multicultural and Heritage Language Education Policies, 1994 – provides rationale for integrating multicultural materials into curricula. (Order no. 1219)

Selecting Fair and Equitable Materials, 1991 – suggests strategies useful for recognition of bias and stereotypes. (Order no. 751)

Assessing Present Learning Resources

The learning resources listed in this bibliography should be cross-referenced with those in the school resource centre.

Learning resources in the present collection should be assessed based on the needs of the curriculum, the students, and the teachers. Considerations of needs include reflection of curriculum philosophy; accuracy, currency, readability; relevance, adaptability, and versatility of resources.

Previewing Learning Resources

Teachers and teacher-librarians are urged to preview learning resources carefully before suggesting them for classroom use, and they are advised to refer to their school division's selection policy for guidance in making choices about learning resources.

If schools have not been able to preview the learning resources prior to purchase, it is advisable to order only one copy to review before placing orders for multiple copies. Return policies vary from company to company, but if inappropriate learning resources have to be returned, they must be in saleable condition. A copy of the packing slip or invoice must be included with the returned materials.

Purchasing Learning Resources

Schools interested in purchasing learning resources may order them from the distributors cited in the distributor directory.

Prices quoted are subject to change, but will serve as a guide to approximate costs. Prices quoted do not include taxes or shipping fees.

Please note that while the learning resources listed in this bibliography were available at the time of printing, publishers/producers can discontinue their distribution of them at any time.

Information Regarding Particular Categories of Learning Resources

Textbooks

Textbooks may be used as one of many resources to support resource-based learning. Teachers should select only those parts of the textbook that support the foundational and learning objectives of the curriculum. Drawing upon the best qualities of a variety of recommended resources to meet curriculum objectives will help to provide students with a quality learning experience.

Online Databases of Periodicals and Newspapers: Infotrac, Canadian Newsstand Dailies, and CBCA/Repère

Saskatchewan Learning offers a number of online databases for periodicals and newspapers. Online databases are a powerful tool to assist teachers with the integration of technology into teaching and learning. The databases provide teachers and students with access to **both current and archived** information on many topics/subject areas.

Canadian content is featured in Micromedia's ***Canadian Business and Current Affairs (CBCA/Repère-French)***, Infotrac's ***Canadian Periodical Index Quarterly (CPI.Q)***, and Proquest's ***Canadian Newsstand Dailies***.

The databases are located at the following address:

www.sasklearning.gov.sk.ca/branches/curr/evergreen/databases.shtml

To access the online databases, educators need to click on their region and select either the Web Interface or the K-12 Interface. For further information they should contact the teacher-librarian, local Resource-based Learning Consultant or Saskatchewan Learning at (306) 787-1194.

Videos

Many valuable video resources may be used to support the delivery of the Science 10 Curriculum. Prior to using a video in the classroom, teachers should preview the program and consider selecting segments that directly support curriculum concepts and objectives to show to the students. As with any resource, a video does not need to be used in its entirety.

Some of the videos listed in this bibliography are available from **Media Group** and may be acquired at a nominal cost. Schools are responsible for postage, a duplication charge of $1.00 per title, plus the cost of a blank tape, shipping fees, and applicable taxes. Blank tapes may be purchased from **Media Group**.

Media Group can be contacted at:

2710 Millar Avenue
SASKATOON SK S7K 4J4
Ph: (888) 682-8808
Fax: 877-444-3354
E-mail: vidlib@mg.ca.

Media Group also provides online ordering services at the following address:

http://videodb.mg.sk.ca/

Please note that to show movies or other videos in the classroom legally, schools must obtain public performance rights. These public performance rights are cleared for programs available from **Media Group** as well as for videos that are listed for sale in Saskatchewan Learning bibliographies. If educators are unsure if public performance rights are available for a video that is not included in a Saskatchewan Learning bibliography, the distributor should be contacted before using the video in the classroom.

Sometimes schools or school divisions choose to purchase a licence from a video collective. The benefit of having a licence is that teachers can show to their students any videos produced by the companies represented without violating copyright laws.

If a general licence is purchased, teachers are responsible for renting or borrowing the videos. The distributor does not supply them.

Another option is for schools or school divisions to buy a single-title licence. This means that one copy of the video is supplied by the distributor and that teachers are allowed to show it to their students until the licence expires.

Examples of video collectives follow:

Audio Ciné Films Inc.
1955 Cote-de-Liesse Rd Suite 210
MONTREAL PQ H4N 3A8
Ph: (800) 289-8887
Fax: (514) 493-9058
E-mail: info@acf-film.com
Website: http://www.acf-film.com

Criterion Pictures
11391 Seafield Crescent
RICHMOND BC V7A 3J1
Ph: (888) 288-9540
Fax: (604) 274-9541
E-mail: brent@criterionpic.com
Website: www.criterionpic.com/

Visual Education Centre Limited
41 Horner Ave, Unit 3
ETOBICOKE ON M8Z 4X4
Ph: (800) 668-0749
Fax: (416) 251-3720
E-mail: info@visualed.com
Website: www.visualed.com.

Internet Sites

Saskatchewan Learning provides a forum through the Evergreen Curriculum Resources page for teachers to access and share educationally appropriate Internet sites. The gateway to the URL Database of websites may be found at the following address:

www.sasklearning.gov.sk.ca/branches/curr/evergreen/resources_main.shtml **or** directly through www.sasklearning.gov.sk.ca/pls/urldb/udb_pkg.main

Sites recommended through this database support curriculum objectives. These sites may also be directly accessed within the online version of the Science 10 Curriculum guide by clicking on the WWW buttons embedded within the foundational and learning objectives.

Teachers may suggest and review additional Internet sites by registering (creating an account) in the URL database. Registration may be completed via the addresses listed above. When suggesting or reviewing a website, teachers should consider its merits based on accuracy, authenticity, and usefulness in meeting foundational and learning objectives of the Science 10 Curriculum. Website reviews from teachers are used to determine and recommend the most useful URL resources. These websites are directly linked to the online curriculum.

The General Reference Centre (GRC) provides access to general Internet sites that relate to the curriculum. The GRC can be found at the following address:

http://www.sasklearning.gov.sk.ca/pls/urldb/udb_gen_ref_pkg.gen_ref_by_subj_menu_form

Saskatchewan Learning also provides links to other provincial and territorial education websites at the following address:

http://www.sasklearning.gov.sk.ca/admin/contacts_related.shtml

Magazines Relevant to Science Education Teachers

Science Scope
National Science Teachers Association
Member Services
PO Box 90214
WASHINGTON DC 20090-0214
(800) 722-6782
E-mail: mem@minime.nsta.org
Website: www.nsta.org
ISSN 0887-2376
[$90.00 - for a year]

The Science Teacher
National Science Teachers Association
Member Services
PO Box 90214
WASHINGTON DC 20090-0214
(800) 722-6782
E-mail: mem@minime.nsta.org
Website: www.nsta.org
ISSN 00368555
[$90.00 - for a year]

These science-related magazines provide teaching suggestions and activities, some of which may be adapted and used to support the Science 10 Curriculum.

Virus Alert

Virus Alert

When downloading files and applications, Internet users should be aware of the danger of viruses. Downloaded files and applications should always be scanned using a current anti-virus utility. It is advisable to purchase updates to the anti-virus utility regularly. These updates identify the new viruses as well as the old.

Starting Points for Purchase of Learning Resources

The following short list of learning resources supports the Science 10 Curriculum. The intent of this listing is to help teachers begin to build a suitable collection of learning resources. The titles are annotated in the "Titles and Desciption" section of the bibliography.

All Units - General

Nelson Science 10
Nelson Science 10: Concepts and Connections
Sciencepower 10: Science, Technology, Society, Environment

Chemical Reactions

The Genie in the Bottle: 64 All-New Commentaries on the Fascinating Chemistry of Everyday Life
The Periodic Table

Motion

Forces and Motion

Sustainability of Ecosystems

Below Zero
Beyond Organic: The Vision of Fairview Gardens
Cause and Effluent
Crapshoot: The Gamble With Our Wastes (Video)
Decay and Renewal
Henry's Handbook of Soil and Water
Native Plants, Water and Us!
Native Science: Natural Laws of Interdependence
Prairie: A Natural History
Project WET: Curriculum & Activity Guide
Project WILD Activity Guide
Saskatchewan's Native Prairie: Statistics of a Vanishing Ecosystem and Dwindling Resource
Threats to Water Availability in Canada
Water and Wetland Plants of the Prairie Provinces

Weather Dynamics

But It's a Dry Cold!: Weathering the Canadian Prairies
Climate, Nature, People: Indicators of Canada's Changing Climate
The Daily Telegraph Book of the Weather: Past and Future Climate Changes Explained
Discover Nature in the Weather: Things to Know and Things to Do
The Earth Is Faster Now: Indigenous Observations of Arctic Environmental Change
Extreme Canadian Weather: Freakish Storms and Unexpected Disasters
Firefly Guide to Global Hazards
Global Warming
The No-Nonsense Guide to Climate Change
Weather: A Visual Guide
Weather: Dragons of Chaos
Weather Rage
The Winds of Change: Climate Change in the Prairie Provinces

How to Use the Bibliography

Titles and Descriptions

The descriptions provide bibliographic information, sources, annotations, suggested uses as well as other uses and initiatives, if applicable. An example of a print entry follows:

Title ↓ — Media Designation ↓ — Author ↓

But It's a Dry Cold!: Weathering the Canadian Prairies (Print-Non-Fiction). Wheaton, Elaine. Fifth House Publishers (FHW), 1998. 185 p. ISBN 1-894004-01-9 ($18.95 pbk.).

↑ Publisher ↑ Distributor ↑ Date ↑ Collation ↑ ISBN ↑ Price ↓ Annotation

(SK) With a title that reflects a commonly used expression by proud prairie dwellers, *But It's a Dry Cold* focuses on basic prairie weather patterns, precautions, and statistics. It highlights stories of phenomenal blizzards and record breakers, and offers weather and climate facts. This book offers a glimpse into the career of a climatologist and provides a dismal long-term forecast for the year 2040. The easy-to-read text is interspersed with a few attractive colour photographs as well as numerous black-and-white photographs, graphs, maps, and charts. Included are a table of contents and an index.
Suggested Use: Weather Dynamics
Other Use: Science: Elementary Level; Science: Middle Level

An example of a video entry follows:

Title ↓ — Media Designation ↓ — Producer ↓ — Distributor ↓ — Date ↓ — Collation ↓

Atmospheric Circulation (Video). Classroom Video **(MGR)**, 1995. 25 min. Dup. order no. V514. Teacher's Guide - Order no. G514 ($0.50 loose-leaf).

↑ Order Number — Annotation ↓ — ↑ Price

(CAN) This program explains why the world has an atmosphere that is constantly in motion. It shows how the general circulation of winds and pressure systems form and operate to produce changing patterns of weather and climate over the surface of our planet. Through the use of graphics and models, the video explains the forces at work in the atmosphere, such as the Greenhouse Effect and the Coriolis Effect. From a global prospective, the processes involved in atmospheric energy transfers, air pressure systems, and wind belts are clearly described.

A teacher's guide is available from Media Group.
Suggested Use: Weather Dynamics

The abbreviation **hdc.** denotes hardcover edition; **pbk.** denotes paperback edition.

ISBN denotes the International Standard Book Number, usually the order number.

(CAN) indicates that a Canadian contributed to the development of the learning resource or that it includes Canadian content.

(SK) indicates that a Saskatchewan person contributed to the development of the learning

resource or that it includes Saskatchewan content.

Suggested Use provides suggestions for the unit(s) that the resource best supports.

Unless suggested for use as a teacher reference, all resources are appropriate for students.

Other Use indicates the other subject area(s) and/or level(s) that the resource also supports. These learning resources **have been recommended** previously in other Saskatchewan Learning bibliographies or updates.

Initiative(s) indicates the Saskatchewan Learning initiative(s) that the resource supports. The initiatives include Abilities Awareness, Aboriginal Content and Perspectives, Career Development, Gender Equity, and Multicultural Content and Perspectives.

Index of Suggested Uses

Titles are listed alphabetically according to the unit(s) that they best support.

Index of Initiatives

Titles are listed alphabetically according to the initiative(s) that they support.

Media Index

Titles are listed alphabetically under each media designation.

Distributor Directory

The abbreviations enclosed in parentheses following the publisher or producer represent the distributor. The full names, addresses (including e-mail and websites where available), fax and phone numbers of these companies are given in this section. Please note that some distributors provide a toll-free number.

Titles and Descriptions

Titles and Descriptions

Addison Wesley Science 10 (Print-Non-Fiction). Sandner, Lionel, et al. Addison-Wesley Longman, Inc. (PRN), 2004. 510 p. Order numbers follow.

Recommended components for this title include the following:

Student Text
ISBN 0-201-72968-7 ($91.79 hdc.)
Teacher's Resource
ISBN 0-201-72970-9 ($342.65 binder)
CD-ROM & User's Guide
ISBN 0-201-76997-2 ($270.00 set)
Transparencies
ISBN 0-201-72972-5 ($133.82)
Solutions Manual
ISBN 0-321-16157-2 ($142.06 CD-ROM).

(CAN) This textbook resource provides support for the "Chemical Reactions" unit and the "Motion" unit in Saskatchewan's new Science 10 Curriculum. A significant portion of this resource, however, addresses extraneous topics and objectives as a result of being designed specifically for Alberta's science curriculum. Teachers may find the textbook and teacher's resource useful as a reference for those units corresponding to Saskatchewan's curriculum. Activities that align with provincial objectives may be selected and used to supplement other available resources.
Suggested Use: Chemical Reactions; Motion; Teacher Reference

Antarctica and Global Weather and Climate (Video). (The Passport to Antarctica Series). Passport to Knowledge (CLC), 2002. 15 min. Order no. 5-5037 ($39.95). Circulating copy - Order no. 5-5037c ($69.95).

The Antarctica serves as a window to past, present, and future global climate changes. This video shows how changes to the ozone layer and variations in the ice sheets on this region of the earth have global consequences for weather and climate.

An online guide accompanies this resource, and may be viewed at http://passporttoknowledge.com/antarctica.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics

Aquatic Invaders: The Rising Tide of Non-Native Invasive Species (Video). Films for the Humanities & Sciences Inc. (MCI), 2002. 27 min. No order number is required. ($209.95).

This program uses the Great Lakes as a case study to highlight impacts on the ecosystem when alien species such as the zebra mussel, sea lamprey, and Eurasian ruffle enter new aquatic environments. *Aquatic Invaders* offers suggestions for combatting the spread of these species.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Assignment Discovery Series (Video). Please refer to the title: *Forces and Motion.*

At Issue Series (Print-Non-Fiction). Please refer to the title: *Is Global Warming a Threat?*

Atmospheric Circulation (Video). Classroom Video **(MGR)**, 1995. 25 min. Dup. order no. V514. Teacher's Guide - Order no. G514 ($0.50 loose-leaf).

(CAN) This program explains why the world has an atmosphere that is constantly in motion. It shows how the general circulation of winds and pressure systems form and operate to produce changing patterns of weather and climate over the surface of the planet. Through the use of graphics and models, the video explains the forces at work in the atmosphere, such as the Greenhouse Effect and the Coriolis Effect. From a global prospective, the processes involved in atmospheric energy transfers, air pressure systems, and wind belts are clearly described.

A teacher's guide is available from Media Group.
Suggested Use: Weather Dynamics

Below Zero (Print-Non-Fiction). Canadian Wildlife Federation (CNW), 2005. 194 p. ISBN 1-55029-166-1 ($FREE spiral-bound).

(CAN) *Below Zero* is an instructional resource for educators teaching about natural resources within winter and frozen environments. Designed to complement the *Project WILD Activity Guide*, the activities in *Below Zero* promote awareness, knowledge, skills, and responsible behaviour towards wildlife in winter environments. This activity guide contains four sections: "Awareness and Appreciation," "Habitat and Ecological Principles," "Adaptation," and "Responsible Human Actions." Teachers are encouraged to select and adapt activities from this resource that align with curriculum objectives and that meet the needs of students.

Below Zero activity guides are free to teachers attending a *Below Zero* workshop, often offered in conjunction with *Project WILD* workshops. These workshops provide an opportunity to experience the activities and to actively plan how to use them in the classroom. A modest registration fee will cover workshop materials and expenses. Educators may contact the *Project WILD* co-ordinator in Regina at 787-5242 for more details.
Suggested Use: Sustainability of Ecosystems; Teacher Reference
Other Use: Science: Elementary Level; Science: Middle Level; Science: Secondary Level

Beyond Organic: The Vision of Fairview Gardens (Video). Center for Urban Agriculture at Fairview Gardens (MCN), 2000. 33 min. No order number is required. ($195.00).

Fairview Gardens is a 12-acre organic farm located within an urban centre in California. Against all odds, this farm has become a model of sustainable food production and community-supported agriculture. This video shows the efforts of farm manager, photographer, and author, Michael Ableman, to diversify the farm (including offering educational programs), and to defend it against the challenges of an encroaching city. A clear connection is made between the nature of science and technology, and their relationships to social and environmental contexts.
Suggested Use: Sustainability of Ecosystems;
Other Use: Agriculture Studies; Science: Secondary Level; Social Studies 20/History 20
Initiative: Career Development

The Biologically Speaking Series (CD-ROM). Please refer to the following titles: *Ecosystems* and *the Cycles of Nature*.

Biomes: A Five-Part Series (Video). Cambridge Educational (KIN), 2002. 17-22 min. Order numbers follow.

Recommended titles in this series include the following:

Aquatic Biomes
Order no. 5895 ($126.95)
Desert Biomes
Order no. 5896 ($126.95)
Grassland Biomes
Order no. 5899 ($126.95)
Rainforest Biomes
Order no. 5897 ($126.95)
Tundra Biomes
Order no. 5898 ($126.95).

In an engaging fashion, this five-part video series illustrates the complexities of our global ecosystem, one that consists of many interdependent ecological communities. Both natural forces and human activity influence each of these communities and the life forms peculiar to them.

Aquatic Biomes explores the ecosystems and life forms in rivers, lakes, wetlands, intertidal zones, coral reefs, and kelp forests. Distinguishing characteristics between saltwater and freshwater environments are described, as well as the traits of various plants and animals living in these biomes.

Desert Biomes describes the plants and animals that live in desert regions and how they have adapted to their environment. This program compares and contrasts arid and semi-arid regions.

Grassland Biomes identifies the climatic characteristics, life-forms, and behavioural adaptations suited to the grassland regions. This episode includes examples from the prairies of North America, the pampas of Argentina, the steppes of Russia, and the veldt of South Africa. The program emphasizes humans' reliance on grasslands and the effects of humans on grasslands.

Rainforest Biomes are home to more than half of the world's plant and animal species. This program identifies many of these inhabitants along with threats to rainforest ecosystems around the world.

Tundra Biomes explores the plants and animals inhabiting regions of extreme cold and the adaptations that allow them to survive.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Biomes Atlases Series (Print-Non-Fiction). Raintree Steck-Vaughn Company (JAP), 2003. 64 p. Order numbers follow.

Recommended titles in this series include the following:

Arctic Tundra and Polar Deserts
ISBN 1-4109-0020-7 ($14.25 pbk.)
Deserts and Semideserts
ISBN 1-4109-0021-5 ($14.25 pbk.)
Mountains and Highlands
ISBN 1-4109-0012-6 ($14.25 pbk.)
Oceans and Beaches
ISBN 1-4109-0013-4 ($14.25 pbk.)
Rivers, Lakes, Streams, and Ponds
ISBN 1-4109-0014-2 ($14.25 pbk.)
Shrublands
ISBN 1-4109-0015-0 ($14.25 pbk.)
Taiga
ISBN 1-4109-0016-9 ($14.25 pbk.)
Temperate Forests
ISBN 1-4109-0022-3 ($14.25 pbk.)
Temperate Grasslands
ISBN 1-4109-0017-7 ($14.25 pbk.)
Tropical Forests
ISBN 1-4109-0018-5 ($14.25 pbk.)
Tropical Grasslands
ISBN 1-4109-0019-3 ($14.25 pbk.)
Wetlands
ISBN 1-4109-0023-1 ($14.25 pbk.).

This comprehensive series on biomes of the world connects plant and animal life in each biome with the influences of climate. It also examines how the characteristics of biomes influence human behaviour, and conversely, how human behaviour impacts the future of each biome. Phenomenal photographs and detailed maps illustrate the unique features of each biome, and include examples from around the world. Each book in the series follows a user friendly layout and includes a table of contents, a glossary, and an index. This series is an excellent research resource.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level

Biophysical Environment: Ecosystems and Interactions (Video). Classroom Video **(MGR)**, 1998. 22 min. Dup. order no. V516. Teacher's Guide - Order no. G516 ($0.50 loose-leaf).

(CAN) The biophysical environment is made up of the interactions among the atmosphere, hydrosphere, lithosphere, biosphere, and human activities. This program examines the nature of cycles and change in the environment on three scales: local - as in the context of nutrient cycling in the Dorrigo Plateau, North South Wales, Australia; regional - the hydrological cycle operating in the Bellinger Valley Catchment, Australia; and global - the carbon cycle operating in the littoral zone throughout the globe.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Bringin' Back the Browns (Video). McNabb Connolly **(MGR)**, 2002. 17 min. Dup. order no. V2337.

(CAN) This program features students at Chaminade College, a Toronto area high school, who volunteer their spare time to clean up Black Creek in an effort to restore an ecological system long ago destroyed by the encroaching city. Led by their biology teacher, the young people learn how to reintroduce the indigenous trout, offering viewers a glimpse of what is possible when students are empowered to improve their future.

Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level; Social Studies 20/History 20; Wildlife Management

But It's a Dry Cold!: Weathering the Canadian Prairies (Print-Non-Fiction). Wheaton, Elaine. Fifth House Publishers (FHW), 1998. 185 p. ISBN 1-894004-01-9 ($19.95 pbk.).

(SK) With a title that reflects a commonly used expression by proud prairie dwellers, *But It's a Dry Cold* focuses on basic prairie weather patterns, precautions, and statistics. It highlights stories of phenomenal blizzards and record breakers, and it provides weather and climate facts. The book offers a glimpse into the career of a climatologist and provides a dismal long-term forecast for the year 2040. The easy-to-read text is interspersed with a few attractive colour photographs as well as numerous black-and-white photographs, graphs, maps, and charts. Included are a table of contents and an index.
Suggested Use: Weather Dynamics
Other Use: Science: Elementary Level; Science: Middle Level

Can We Live Sustainably? An Overview of the Human Factor Section of the Life Sciences Gallery (CD-ROM). Sutter, Glenn C. Royal Saskatchewan Museum (MNH), 2005. ISBN 0-9689729-1-8 ($FREE).

Produced by the Royal Saskatchewan Museum, this guide to The Human Factor exhibit may be used as a stand-alone resource or as a support to exploring the display. The guide provides an overview of the form and content of the exhibit, which explores the dynamic nature of humans' role in a global ecosystem.

Electronic copies of this resource are available at http://www.royalsaskmuseum.ca/research/publications/life_sciences.shtml#cwls.

An Interactive Learning Centre related to The Human Factor exhibit may be accessed at http://ilc.royalsaskmuseum.ca/home/.
Suggested Use: Sustainability of Ecosystems

Cause and Effluent (Video). Ontario Healthy Communities Coalition (MCN), 2003. 24 min. No order number is required. ($195.00).

(CAN) Using Canadian case studies, this video explores a variety of ecological technologies and strategies for waste treatment in rural and urban areas. Examples include an organic beef farm in Ontario that uses manure composting; two schools, one remote and one urban, which use different methods of wastewater treatment; and, a factory that reduced its energy use and waste production dramatically. This video lends itself to discussion about cause and effect as related to waste management issues.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Chemical Elements: From Carbon to Krypton (Print-Non-Fiction). Newton, David E. Thomson Gale (SBC), 1999. 686 p. ISBN 0-7876-2844-1 ($238.50 hdc.).

Consisting of three volumes, this comprehensive resource introduces readers to the chemical elements. Presented alphabetically, each element's entry includes background information about its discovery and naming, its physical and chemical properties, and its isotopes and compounds. As well, information about its occurrence in nature, extraction methods, uses, and health effects are included. The first page of each entry features the chemical symbol, atomic number, atomic mass, family group, and pronunciation guide for the element, along with a diagram of one of its atoms. The endpapers of each volume display an easily referenced periodic table. In addition, each book contains three tables of contents (organized by element name, atomic number, and family group), a timeline outlining the discovery of the elements, a glossary, and a comprehensive index. The user friendly layout and clearly written entries make this resource a useful classroom reference tool.
Suggested Use: Chemical Reactions;
Other Use: Science: Secondary Level
Initiative: Career Development

Climate, Nature, People: Indicators of Canada's Changing Climate (Print-Non-Fiction). Climate Change Indicators Task Group. Canadian Council of Ministers of the Environment (CCME), 2003. 45 p. ISBN 1-896997-29-5 ($FREE pbk.).

(CAN) This report describes changes to Canada's climate during the 20th century and reviews trends and implications for 12 climate change indicators. Trends in temperature, precipitation, and other indictors identified in the report suggest that while impacts vary across the country, climate in many regions of Canada is changing. Indicators of interest to Saskatchewan people include drought frequency, extreme weather events, and river and lake ice indicators. Numerous maps, graphs, and colour photographs enhance the text. This attractive booklet includes a table of contents, sources of further information, and an index.

Copies of this report were sent free of charge to Saskatchewan high schools courtesy of Climate Change Saskatchewan in January 2004.

Additional copies are available from Canadian Council of Ministers of the Environment, and the report is also available online at www.ccme.ca/initiatives/climate.html?category_id=33.
Suggested Use: Weather Dynamics
Other Use: Canadian Studies; Science: Middle Level

Clouds and Patterns of Weather (Video). AIMS Multimedia (CLC), 2001. 21 min. Order no. 1-2648 ($69.95).

This video provides information on different types of clouds, how they are formed, and how they may be used as indicators of weather patterns. The photography is stunning.

A teacher's guide is available at www.canlearn.com/guides/1-2648ATM.pdf.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

Cold (Video). (Planet Weather Series). BBC Enterprises **(MGR)**, 2002. 50 min. Dup. order no. V3304.

Cold can be deadly, bringing ice, frost, smog, and avalanches as well as frostbite and heart attacks. What is the effect of extreme cold on the body? In New York, two men who survived a freak storm with wild winds reaching 232 km per hour are interviewed. Viewers are taken to Greenland, home of the Inuit, to see how the residents survive temperatures of minus 40 degrees Celsius. The people of the Sirius sledge patrol live for three months in this harsh environment. Host, Donal MacIntyre, visits Mount Washington and experiences the extremes of winter weather. He also talks to Canadians who survived Canada's worst weather crisis, the Quebec ice storm of 1998.
Suggested Use: Weather Dynamics
Initiative: Aboriginal Content and Perspectives

Cornell Scientific Inquiry Series (Print-Non-Fiction). Please refer to the title: *Decay and Renewal.*

Crapshoot: The Gamble With Our Wastes (Video). National Film Board of Canada (NFB), 2003. 53 min. VHS/DVD - Order no. C9103 064 ($49.95).

(CAN) This video raises awareness about growing social and environmental concerns surrounding waste management. Scientists, activists, engineers, and concerned citizens identify potential health risks associated with current waste management practices. Viewers are challenged to reflect upon personal and community waste production, waste treatment, and the use of waste products. This video may stimulate discussion about differing viewpoints and solutions to the issues presented.
Suggested Use: Sustainability of Ecosystems
Other Use: English Language Arts 10; Science: Secondary Level

Creating a Climate of Change: Resources for Teachers (Kit). SEEDS Foundation (SEEDS), 2001. ISBN 0-9689830-0-6 ($75.00).

(SK) Following an introduction, the video presents seven modules. Module 1 discusses weather and climate. Module 2 examines

climate change and global warming. Module 3 uses evidence from the earth's climate history to make some predictions about the future. Module 4 reviews the international meetings of the past decade, looking at the difficulties of achieving agreement among national leaders. Module 5 explores international agreements that allow the trading of gas emissions and the effect of these agreements on developing countries. Module 6 talks about adaptation (e.g., building river diversion channels) and mitigation (e.g., reforestation) as means of reducing the rate of climate change. Module 7 introduces various technologies that may help reduce greenhouse gases.

A teacher's guide along with colour transparencies and black-line masters accompany the video.

SEEDS Foundation sent this resource to 111 Saskatchewan schools (including 31 pilot sites) in 2002. Additional copies are available at less than the cost of production.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level; Social Studies 10/History 10; Social Studies 20/History 20

The Daily Telegraph Book of the Weather: Past and Future Climate Changes Explained (Print-Non-Fiction). Eden, Philip. Continuum Publishing Co. (UTP), 2003. 213 p. ISBN 0-8264-6197-2 ($42.50 hdc.). ISBN 0-8264-7125-0 ($24.95 pbk.).

This weather resource provides a historical context for current climatic events and patterns. It begins with an overview of weather and climate history, and ends with a look into the future of weather, forecasting, and climate change. A scientific background is used to interpret weather events, and to discuss issues such as global warming. Although written from an American perspective, weather events from Canada, the United Kingdom, and Asia are referenced.
Suggested Use: Weather Dynamics; Teacher Reference

Decay and Renewal. Student ed. (Print-Non-Fiction). (Cornell Scientific Inquiry Series). Trautmann, Nancy M., et al. NSTA Press (NSTA), 2003. 141 p. ISBN 0-87355-212-1 ($7.95 U.S. pbk.).

This resource explains the science behind the process of biodegradation. It goes on to provide many related student activities that can be conducted using minimal equipment and supplies. Easy-to-understand diagrams of energy cycles are included, as well as discussion questions, and templates for interactive research projects.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Discover Nature in the Weather: Things to Know and Things to Do. 1st ed. (Print-Non-Fiction). Herd, Tim and Kealy, Patrice, illus. Stackpole Books (FHW), 2001. 215 p. ISBN 0-8117-2716-5 ($20.95 pbk.).

This thorough resource clearly describes diverse weather phenomena. It includes information on the processes and mechanisms of weather, as well as the relationships between human behaviour and the atmosphere. Drawings, diagrams, maps, tables, and charts support readers' understanding of the concepts presented. Many ideas for making practical observations and for conducting hands-on experiments are suggested. This informative guide is easy to understand, and it is suitable as a student or teacher resource.

Note: There is an error on page 13 where the human body temperature is listed as 58°C.
Suggested Use: Weather Dynamics

The Earth Is Faster Now: Indigenous Observations of Arctic Environmental Change (Print-Non-Fiction). Krupnik, Igor and Jolly, Dyanna, eds. Arctic Research Consortium of the United States (ARCU), 2002. 376 p. ISBN 0-9720449-0-6 ($25.00 U.S. pbk.).

Many researchers and Arctic residents recognize the importance of including indigenous perspectives into Arctic environmental research. Through a collection of articles, this resource presents the observations of Elders as they reflect on the impact of a changing climate on the life and land in northern

regions of the world. Using a variety of examples including the dangers of poor snow conditions, and the threats to animals, hunting, and fishing, the Aboriginal people and researchers raise awareness about the impact of global warming and climate change.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics; Teacher Reference
Other Use: Science: Secondary Level
Initiative: Aboriginal Content and Perspectives

Earth Science: Concepts and Challenges. 4th ed. (Print-Non-Fiction). Bernstein, Leonard, et al. Globe Fearon Educational Publisher (PRN), 2003. 501 p. ISBN 0-13-023815-5 ($75.75 hdc.).

This easily read student text is well organized with most topics limited to a two-page spread. A focus question introduces each new topic, and key terminology is highlighted. Numerous illustrations, charts, and tables support the print. Some additional features include a handbook on developing skills such as observing, comparing, classifying data, modelling, simulating, measuring, analyzing data, and communicating results. Another handbook focuses on how to conduct a scientific investigation.

Please note that this resource addresses only one of the units from the new science curriculum. Teachers may find it useful as a support to other resources.
Suggested Use: Weather Dynamics

Earth Science: Learning About Earth's Weather (Video). (Science Screen Report Series). Allegro Productions, Inc. (VEC), 2000. 14 min. Order no. EAR171 ($49.95). Circulating copy - No order number is required. ($129.00).

This program discusses weather from a global perspective. The topics include global climate patterns, air and water currents, extreme weather, El Nino, and weather forecasting.

A brief teacher's guide accompanies the video.
Suggested Use: Weather Dynamics

Earth's Variable Climate (Video). (The Passport to Weather and Climate Series). Canadian Learning Company Inc. (CLC), 2000. 15 min. Order no. 5-5044 ($69.95).

This fast-paced video describes how scientists use ancient temperature and humidity records from tree rings and fossils to understand climatic change and the greenhouse effect. It compares an actual greenhouse with the Earth's atmosphere and analyzes the effects of human-induced change on the atmosphere. This informative resource may be useful as an introduction or summary to a study of global warming.
Suggested Use: Weather Dynamics

Ecosystems and the Cycles of Nature (CD-ROM). (The Biologically Speaking Series). AIMS Multimedia (CLC), 2002. 18 min. Order no. 1-2604 ($69.95).

This program provides a brief overview of a multitude of concepts and terms related to ecosystems (e.g., biome, producer, consumer, carnivore, omnivore, scavenger, decomposer, symbiosis). *Ecosystems and the Cycle of Nature* would be suitable for review purposes rather than an introduction because the information is presented in a non-stop narrative with less than one minute spent on each topic.
Suggested Use: Sustainability of Ecosystems

The Elements of Physics Series (Video). Please refer to the title: *Motion, Force and Gravity.*

Extreme Canadian Weather: Freakish Storms and Unexpected Disasters (Print-Non-Fiction). Dixon, Joan. (Amazing Stories Series). Altitude Publishing (ATG), 2005. 143 p. ISBN 1-55153-949-7 ($9.95 pbk.).

(CAN) Due to Canada's geographical spread and climatic variations, this country experiences a wide range of weather events. These include tornadoes, droughts, dust storms, ice storms, hail storms, hurricanes, and floods. In narrative form, this resource describes extreme Canadian

weather events from the past century and their implications for local people in the affected regions. A map of Canada identifying the location of numerous weather-related events is included at the front of the book. A short epilogue encourages readers to consider the impact of human activity on weather, as well as the technological advances in predicting, curtailing, and coping with the weather.
Suggested Use: Weather Dynamics

Firefly Guide to Global Hazards (Print-Non-Fiction). Kovach, Robert and McGuire, Bill. Firefly Books Ltd. (FIR), 2004. 256 p. ISBN 1-55297-815-X ($14.95 pbk.).

This small guide provides a concise reference to natural hazards experienced around the world. Many local and global natural disasters are described including earthquakes, volcanoes, tsunamis, ice hazards, flooding, tornadoes, and drought. Additional information and support is provided through a variety of photographs, diagrams, tables, graphs, and maps. This useful guide is an excellent student and teacher reference.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics

Forces and Motion (Video). (Assignment Discovery Series). Discovery Communications (KIN), 1999. 27 min. Order no. 7416 ($84.95).

This high-energy video relates speed and acceleration to common, everyday types of motion. The program shows how to measure and graph speed and distance. Students learn about factors affecting speeds as they observe how conditions such as shape and air resistance affect the velocity of high-speed cyclists and skydivers.

A teacher's guide accompanies this video.
Suggested Use: Motion
Other Use: Science: Secondary Level

Fresh Waters Flowing: Biological Monitoring Protocol (Video). The Video Project (MGR), 2002. 20 min./17 min. Dup. order no. V3281.

Fresh Waters Flowing, Part One of this video, explores the connection between humans and rivers, specifically the links between human influences and the ability of a river to support healthy living communities. This program, reveals the importance of a river's biological integrity, and it demonstrates how measuring biological conditions with the index of biological integrity (IBI) can be a powerful tool for maintaining and restoring healthy watersheds.

Biological Monitoring Protocol, Part Two, introduces IBI as the best yardstick for measuring the health of rivers and streams. Measuring pollutants such as temperature, phosphorus, or toxic chemicals may tell if a river is clean, but only a direct biological yardstick such as IBI indicates the river's health. It can be used, for example, to tell how well a stream can support wild salmon. The IBI has been adopted to monitor rivers on all continents except Antarctica. The program outlines the actual equipment and techniques needed to collect data as an index of biological integrity. This video explores the interrelationship between people and a fresh water ecosystem.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

The Genie in the Bottle: 64 All-New Commentaries on the Fascinating Chemistry of Everyday Life (Print-Non-Fiction). Schwarcz, Joe. ECW Press (JBG), 2001. 311 p. ISBN 1-55022-442-5 ($16.95 pbk.).

In a series of 64 engaging commentaries, this learning resource discusses the chemistry found in everyday life. It uncovers myths and pseudoscience using recent scientific research to explain many observed phenomena. Stories from this resource may be useful as motivational sets and as examples of how science affects everyone.
Suggested Use: Chemical Reactions
Other Use: Science: Secondary Level

Geoscape Southern Saskatchewan (Poster). Saskatchewan Geological Society (SKM), 2004. ISBN 0-660-19193-8 ($12.00).

(SK) This poster surveys Saskatchewan's geology south of the Precambrian Shield. It includes information on water resources, geological hazards, and energy and mineral resources significant to the provincial economy. It also illustrates how glaciation patterns contribute to Saskatchewan scenery and land use today. Informative captions accompany colourful photographs and diagrams. This useful resource clearly shows our dependence on the land and its resources.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level

Global Warming (Print-Non-Fiction). Morgan, Sally. (Science at the Edge Series). Heinemann Educational Books (KRS), 2003. 64 p. ISBN 1-4034-0324-4 ($34.45 hdc.).

This book outlines possible indicators of global warming and their impact on human activity. Written from an American perspective, it addresses issues such as drought, glacial retreat, and changes in weather patterns, vegetation, and sea level. The author suggests implications of current practices such as deforestation, consumption of fossil fuel, and the use of chlorofluorocarbons (CFCs), while presenting alternative behaviours to follow. Opposing viewpoints on global warming are briefly presented. This resource may serve as a springboard to further discussion or projects.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics
Other Use: Science: Middle Level

Global Warming and the Greenhouse Effect (Video). Educational Video Network (EVN), 2001. 20 min. ISBN 1-88950-075-X ($59.95 US).

In a clear manner, this video explains the Greenhouse Effect and how it affects weather patterns around the world. The program encourages viewers to take the threat of global warming seriously in order to ensure the survival of life on our planet. Some chemical formulas and equations are used during explanations.
Suggested Use: Weather Dynamics

The Great Northern Kingdom: Life in the Boreal Forest (Print-Non-Fiction). Lynch, Wayne. Fitzhenry & Whiteside Ltd. (FHW), 2001. 160 p. ISBN 1-55041-617-0 ($39.95 hdc.).

(CAN) The boreal forest is a major component of Saskatchewan's landscape, and this resource captures the beauty and diversity of life within it. In a series of loosely connected articles, the author has described the life cycle of many animals and plants that have adapted to the northern environment. Excellent scientific information written in an entertaining format is provided on mammals, birds, frogs, forests, and flowers. Each section is illustrated with stunning colour photographs. An index is provided.
Suggested Use: Sustainability of Ecosystems
Other Use: Forestry Studies; Wildlife Management

Greenhouse Earth: An Uncontrolled Experiment (Video). Films for the Humanities & Sciences Inc. (MCI), 2003. 26 min. No order number is required. ($79.95).

This program explores the impact of human and natural phenomena on global warming and climate change, primarily from a European perspective. It makes use of 3-D animations and high-tech imaging to show examples of these phenomena. The program also identifies the role of scientists in exploring these issues, the nature of science, and the Science, Technology, Society, Environment (STSE) focus of science.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics

Heard Island (Video). Films for the Humanities & Sciences Inc. (KIN), 2003. 52 min. Order no. 31151 ($210.95).

In this program, scientists and researchers from a variety of disciplines undertake a six-month expedition to conduct research on Heard Island,

one of the most remote and pristine places on Earth. This island, located over 1200 kilometres southwest of Australia, is a precise barometer of climate change and global warming. The team conducts studies ranging from archaeological excavations of Heard Island's once-bustling seal industry to ornithological surveys of migratory sea birds and their food.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics

Heat (Video). (Planet Weather Series). BBC Enterprises **(MGR)**, 2002. 50 min. Dup. order no. V3305.

Heat is a mighty force that governs our climate, from hurricanes and sandstorms to thunder and lightening. This program traces the arrival of summer, from the extremes of heat in the desert to lovely summers in the temperate climates of the North. Viewers see the jungles of Belize, where the sun's energy is most intense and the weather is both hot and wet. While a rare situation, in 1995 Chicago experienced a heat wave that killed 165 people. In the desert, the Marathon des Sables is an exhausting and dangerous seven-day test of ability to see what effect dry heat has on the weather, from mirages to a deadly desert sand storm. The energy behind lightening and the experience of being struck by lightening are explored.
Suggested Use: Weather Dynamics

Henry's Handbook of Soil and Water (Print-Non-Fiction). Henry, Les. Henry Perspectives (HRY), 2003. 218 p. ISBN 0-9687650-1-7 ($44.95 pbk.).

(CAN) This in-depth manual presents the author's research on soils and water throughout the prairie provinces over the course of 40 years as a farmer, a professor, and an agricultural/environmental consultant. Most of Henry's research focuses on soil fertility and salinity, as well as on issues related to surface and groundwater. Numerous photographs, charts, and diagrams accompany the text to further illustrate and clarify the author's findings. The front cover includes a fold-out map of the soil zones of the Canadian prairies. Throughout this book, either Imperial or Metric units of measurement are used depending on the unit most common for a particular context. An appendix with information on conversions is included for easy reference.
Suggested Use: Sustainability of Ecosystems; Teacher Reference
Other Use: Science: Middle Level; Science: Secondary Level

Hot Zones (DVD). (Journey to Planet Earth: Season Two Series). Screenscope Inc. (SCRE), 2003. 25 min. No order number is required. ($149.00 U.S.).

This DVD presents four current case studies (Kenya, Peru, Bangladesh, the United States) illustrating the global growth of infectious diseases. The focus is on identifying societal and environmental issues related to human health and environmental change.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Hush Hush: The Dark Secrets of Scientific Research (Print-Non-Fiction). Jordan, Michael. Firefly Books Ltd. (FIR), 2003. 192 p. ISBN 1-55297-607-6 ($35.00 hdc.). ISBN 1-55297-608-4 ($24.95 pbk.).

This popular science resource takes a critical look at recent disasters and controversial topics surrounded by scientific, business, and government secrecy and conspiracy. From catastrophes resulting from the use of Agent Orange to the Bhopal chemical disaster, and the genetically modified food debate, 40 different topics are covered. This thought-provoking book requires critical thinking and consideration of whose views are being expressed. Reference to websites, books, and articles at the end of each section invites further research into selected topics. This may be a useful resource for student research projects.

Note: Readers may find some of the photographs and topics disturbing.
Suggested Use: General Reference
Other Use: Science: Secondary Level; Social Studies 20/History 20

Is Global Warming a Threat? (Print-Non-Fiction). (At Issue Series). Williams, Mary E., ed. Greenhaven Press (SBC), 2003. 90 p. ISBN 0-7377-1333-X ($22.45 pbk.).

Similar to other titles in the series, this resource contains both primary and secondary sources from a variety of viewpoints. Charts and graphs supplement the short articles. The book will prove to be particularly useful for students engaged in the dialectical reasoning process. Articles represent a range of ideas from research that shows global warming is a myth to research that shows global warming is a threat to the world's health and economy. An index is included.
Suggested Use: Weather Dynamics; Teacher Reference
Other Use: Social Studies 20/History 20

Journey to Planet Earth: Season Two Series (DVD/Video). Please refer to the titles: *Hot Zones* and *Seas of Grass*.

Keeping Our Waters Clean: Watershed Management and TMDLs (Video). Films for the Humanities & Sciences Inc. (KIN), 2002. 44 min. Order no. 30891 ($210.95).

This documentary examines water pollution, water quality assessment, and the development of watershed management plans. A common theme throughout the examples is the science behind the total maximum daily loads (TMDLs). All examples are American, but the issues are similar to those found across Saskatchewan.
Suggested Use: Sustainability of Ecosystems

Motion, Force and Gravity (Video). (The Elements of Physics Series). Algonquin Educational Productions (MMP), 2003. 20 min. No order number is required. ($59.95).

This video provides an overview of Galileo's study of falling objects, Newton's Laws of Motion, vector analysis of gravitational forces, and the Universal Law of Gravitation. It also introduces Einstein's General Theory of Relativity. This learning resource would best serve as a tool for reviewing or reinforcing the above topics.

This program is close-captioned for people with hearing disabilities.

A teacher's guide is available from a website listed on the video.
Suggested Use: Motion
Other Use: Science: Secondary Level

National Audubon Society First Field Guide Series (Print-Non-Fiction). Please refer to the title: *Weather*.

Native Plant Communities of Saskatchewan (Poster). Native Plant Society of Saskatchewan (NSS), n.d. No order number is required. ($FREE).

(SK) This attractive, colourful poster features labelled drawings of Saskatchewan native plants from the prairie, the boreal plain, the boreal shield, and the taiga shield.

The Native Plant Society of Saskatchewan generously donated copies of this poster to Saskatchewan schools in 2001. Additional copies are available.
Suggested Use: Sustainability of Ecosystems

Native Plants, Water and Us! (Print-Non-Fiction). Wruck, Garth and Gerein, Katherine. Native Plant Society of Saskatchewan (NSS), 2003. 29 p. No order number is required. ($FREE pbk.).

(SK) This booklet offers general information on aquatic ecosystems, their functions, and the important roles that native plants play within them. *Native Plants, Water and Us!* focuses on aquatic ecosystems and the associated native vegetation in an agricultural context. Included are a table of contents, a glossary, and lists of resources and Saskatchewan contacts.

The Native Plant Society of Saskatchewan generously donated copies of this booklet to Saskatchewan schools in 2003. Additional copies are available.

Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Native Science: Natural Laws of Interdependence. 1st ed. (Print-Non-Fiction). Cajete, Gregory. Clear Light Publishers (GDM), 2000. 315 p. ISBN 1-57416-035-4 ($37.40 hdc.). ISBN 1-57416-041-9 ($22.45 pbk.).

(CAN) This book explores a different approach to viewing and understanding of Aboriginal people's knowledge and traditions of science and technology through the voice and stories of their experiences. This is a fascinating read that provides a basic understanding of the creative process as it is reflected in the natural world and in the context of Aboriginal cultural expression. It explores social and ecological patterns of thoughts, interdependence, education, philosophy, and perspective on relationships to plants, animals, astronomy, and the expressions in art, science, environmental ethics, language, story, architecture, and more. Ecological consciousness and mutual reciprocal relationships are at the foundation of Native science. This information is brought together in a sophisticated body of material to provide an understanding of key principles and knowledge of Aboriginal people's science with insight and appreciation for Aboriginal people's wisdom.
Suggested Use: Sustainability of Ecosystems;
Other Use: Native Studies: Grade 10; Native Studies: Grade 11; Science: Secondary Level
Initiative: Aboriginal Content and Perspectives

The Nature of Things Series (Video). Please refer to the title: *Weather: Dragons of Chaos.*

Nature Projects for Young Scientists. Rev. ed. (Print-Non-Fiction). Rainis, Kenneth G. Watts, Franklin, Inc. (SCH), 2002. 192 p. ISBN 0-531-11724-3 ($31.00 hdc.). ISBN 0-531-16381-4 ($15.95 pbk.).

Brimming with ideas, this learning resource offers hundreds of inquiry-based nature project suggestions for science fairs, demonstrations, and lab activities. The first chapter provides information on becoming a nature detective, and it includes ideas about Internet research, project displays, and methods of recording, analyzing, and reporting data. Successive chapters present project ideas related to bacteria, fungi, protists, plants, invertebrates, vertebrates, and ecology. Diagrams and instructions are provided for building simple scientific tools to help students complete their projects.
Suggested Use: General Reference; Teacher Reference
Other Use: Science: Middle Level

Nelson Science 10 (Print-Non-Fiction). Ritter, Bob, et al. Thomson Nelson (NEL), 2001. 726 p. Order numbers follow.

Components include the following:

Student Text
ISBN 0-17-607501-1 ($64.45 hdc.)
Teacher's Resource Package
ISBN 0-17-612086-6 ($338.95 binder)
Computerized Assessment Bank
ISBN 0-17-620134-3 ($199.95 CD-ROM)
Transparencies
ISBN 0-17-612088-2 ($241.95 loose-leaf).

(CAN) The material in the student text is well organized around four units of study. Numerous illustrations and graphs support the print. Among other features, the book offers "challenges" for students, assessment strategies, review questions, and suggestions for further research. Included are a table of contents, a skills handbook, a glossary, and an index.

A teacher's resource package is available. This package includes a three-ring binder for each of the four units: *Unit 1: Sustaining Ecosystems, Unit 2: Chemical Processes, Unit 3: Motion* and *Unit 4: Weather Dynamics.* These binders include the following:

- sample unit pathway planner
- assessment planning strategies
- background information
- related resources
- suggestions for accommodating individual needs

- reproducible black-line masters
- material lists
- assessment tools and opportunities
- teaching strategies
- answers to questions.

The transparency package includes 80 colour transparencies of visuals, graphs, and diagrams from the student text.

The computerized assessment bank features numerous types of questions that are correlated to curriculum objectives. Teachers can adapt the questions and/or add their own.
A science website at www.science.nelson.com features a student centre, a teacher centre, and a parent centre.

Rather than purchasing a class set of this learning resource, it is advisable to purchase a few copies along with various other learning resources such as videos, CD-ROMs, charts, posters, and print materials.
Suggested Use: Chemical Reactions; Motion; Sustainability of Ecosystems; Weather Dynamics
Initiatives: Aboriginal Content and Perspectives; Career Development; Gender Equity; Multicultural Content and Perspectives

Nelson Science 10: Concepts and Connections (Print-Non-Fiction). Gibb, Ted, et al. Thomson Nelson (NEL), 2002. 309 p. Order numbers follow.

(CAN) Components include the following:

Student Text
ISBN 0-17-612095-5 ($42.45 hdc.)
Teacher's Resource
ISBN 0-17-612134-X ($63.95 binder)
Student Record of Learning
ISBN 0-17-612135-8 ($10.95 pbk.).

The material in the easily read student text is well organized with most topics limited to a two-page spread. The print is amply supported by illustrations and graphs. Among other features, the book offers "challenges" for students, assessment strategies, review questions, and suggestions for further research. Included are a table of contents, a skills handbook, a glossary, and an index. Many of the examples cited are Ontario-based.

The teacher's resource offers lessons that include the following sections:

- "Assessment Planning"
- "Instructional Planning"
- "Teaching Suggestions"
- "Accommodating Individual Needs"
- "Answers to Questions."

It also includes unit overviews, challenges, summaries, and reviews.

The student record of learning is organized in a workbook style, and it is intended to meet the needs of students who require additional learning support to achieve the expectations of the curriculum.

Rather than purchasing a class set of this learning resource, it is advisable to purchase a few copies along with various other resources such as videos, CD-ROMs, charts, posters, and print materials.
Suggested Use: Chemical Reactions; Motion; Sustainability of Ecosystems; Weather Dynamics
Initiatives: Abilities Awareness; Aboriginal Content and Perspectives; Career Development; Gender Equity; Multicultural Content and Perspectives

The No-Nonsense Guides Series (Print-Non-Fiction). Please refer to the title: *The No-Nonsense Guide to Climate Change.*

The No-Nonsense Guide to Climate Change (Print-Non-Fiction). (The No-Nonsense Guides Series). Godrej, Dinyar. New Internationalist (BTLI), 2001. 143 p. ISBN 1-896357-48-2 ($14.95 pbk.).

This small book provides a wealth of information on climate change, allowing students to gain an understanding of one of the major issues they will face in the future. While the scientific evidence concerning climatic change is presented, the majority of the book examines the political and social implications. The impacts of climatic change on human health,

agriculture, wildlife, and energy sources are discussed. Suggestions are given for lasting solutions. An index is included.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics
Other Use: Energy and Mines; Social Studies 20/History 20

NWI Scientific Assessment Report Series and ACSD Science Assessment Series (Print-Non-Fiction). Please refer to the title: *Threats to Water Availability in Canada.*

On Nature's Terms (Video). WildFutures **(MGR)**, 2001. 26 min. Dup. order no. V4966.

This program shows how humans can coexist with predators such as wolves, often by reintroducing species to their natural habitats. Ecological, economic, and social factors necessary for the conservation of carnivore species are identified, as well as the necessity to protect large, connected expanses of land vital to their survival. The video shows how age-old myths and misperceived notions about carnivorous species devastated these populations and brought many near extinction when settlers made their way west. Many of these myths and notions persist today. Viewers learn about the role of carnivores in the ecosystem and why they need to be protected.

This program is closed-captioned for people with hearing disabilities.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Our Environment: A Canadian Perspective. 2nd ed. (Print-Non-Fiction). Draper, Dianne. Thompson Nelson Learning (NEL), 2002. 540 p. ISBN 0-17-622236-7 ($80.00 hdc.).

(CAN) In the same way that environmental issues deal with several disciplines, this excellent resource applies to several courses in practical and applied arts, sciences, and social sciences. The book not only provides a scientific, but also a socio-economic balanced approach to the environmental issues affecting Canada and the world. Mining, energy, forests, wildlife, and fresh water are just a few of the areas discussed in the section about Canada's resources for the future. Information concerning the environment and the world's population is also provided. Photographs, maps, charts, graphs, and tables are used throughout the book to create an appealing layout. An index and a glossary are included.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics; Teacher Reference
Other Use: Energy and Mines; Forestry Studies; Science: Middle Level; Science: Secondary Level; Social Studies 20/History 20; Wildlife Management

The Passport to Antarctica Series (Video). Please refer to the titles: *Antarctica and Global Weather and Climate* and *Seals and the Scientists Who Study Them.*

The Passport to Weather and Climate Series (Print-Non-Fiction). Please refer to the titles: *Earth's Variable Climate* and *What Makes Earth's Weather and Climate?*

The Periodic Table (Video). Clearvue & SVE **(MGR)**, 2000. 19 min. Dup. order no. V3253. Teacher's Guide - Order no. G3253 ($1.54 loose-leaf).

This program offers a clear and thorough examination of the Periodic Table of the Elements from both historical and forward-looking perspectives. The program guides viewers through the modern Table's groups and utilizes appealing graphics to help explain its organization. Experiments demonstrate properties of some of the elements. *The Periodic Table* also informs viewers of the uses of certain elements in day-to-day life.

A 20-page teacher's guide accompanies the video.
Suggested Use: Chemical Reactions
Other Use: Science: Secondary Level

Periodic Table of the Elements (Poster). National Research Council Canada (NRCC), n.d. No order number is required. ($FREE).

(CAN) This useful poster clearly indicates the groupings of elements using a colour-coded key. The bottom half of the poster includes additional information about seven of the elements and their role in technology today and in the future. Notebook-sized and wallet-sized copies of the colour-coded periodic table are also available, as well as reference cards in black and white.
Suggested Use: Chemical Reactions
Other Use: Science: Middle Level

Physical Science: Concepts and Challenges. 4th ed. (Print-Non-Fiction). Bernstein, Leonard, et al. Globe Fearon Educational Publisher (PRN), 2003. 506 p. ISBN 0-13-023840-6 ($75.75 hdc.).

This easily read student text is well organized with most topics limited to a two-page spread. A focus question introduces each new topic, and key terminology is highlighted. Numerous illustrations, charts, and tables support the print. Some additional features include a handbook on developing skills such as observing, comparing, classifying data, modelling, simulating, measuring, analyzing data, and communicating results. Another handbook focuses on how to conduct a scientific investigation.

Please note that this resource addresses only two of the units from the new science curriculum. Teachers may find it useful as a support to other learning resources.
Suggested Use: Chemical Reactions; Motion

Planet Weather Series. (Video). Please refer to the titles: *Cold*, *Heat*, and *Wind*.

Plants Out of Place: Facing the Green Invasion (Video). Films for the Humanities & Sciences Inc. (MCI), 2002. 61 min. No order number is required. ($79.75).

This program illustrates the alarming environmental and commercial impact of noninvasive plants, such as kudzu, purple loosestrife, garlic mustard, yellow star thistle, and water hyacinth. It also explains how these plants take hold, and how to fight them using physical, chemical, and biological methods. The examples given are American, but the information applies to Saskatchewan.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Politics of the Wild: Canada and Endangered Species (Print-Non-Fiction). Beazley, Karen and Boardman, Robert, eds. Oxford University Press (OUP), 2001. 254 p. ISBN 0-19-541 506-X ($32.50 pbk.).

(CAN) While Canada is often regarded as having a pristine wilderness, in actual fact it has been a struggle to enact a federal law to protect species at risk. In this collection of short essays, several experts in the field discuss the science and the politics at play. The reasons behind protecting endangered species, the importance of habitat protection, a comparison of Canada's efforts to other nations, and the future prospects for Canada's species at risk are just a few of the topics covered. While this is not a student resource, teachers will be able to use the ideas and sections of the book to encourage critical thinking. An index is included.
Suggested Use: Sustainability of Ecosystems; Teacher Reference
Other Use: Science: Secondary Level

The Pond: Community Ecology in Action (Video). Classroom Video (CVO), 2002. 19 min. No order number is required. ($84.00).

This interesting, well-filmed video shows the unique opportunity for scientific study available in a pond ecosystem. It examines how scientists learn more about complex scientific concepts by studying smaller biological communities. It explores the complexities and challenges of studying food chains and food webs, including the processes of photosynthesis, the oxygen/carbon cycle, and the transfer of energy through the food chain.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Prairie: A Natural History (Print-Non-Fiction). Savage, Candace. Douglas & McIntyre Publishing Group (HCP), 2004. 308 p. ISBN 1-55054-985-5 ($60.00 hdc.).

(SK) This comprehensive guide to the prairie ecosystem is an appealing reference book for both students and teachers. Savage begins by describing the geological and biological roots of the region. Next, she traces the interrelationships between climate and native grasses, soil and the living creatures within it, and the natural balance in rangelands, woodlands, croplands, and aquatic habitats. Finally, attention is given to conservation and sustainability issues. Winner of the 2004 Saskatchewan Book Award's Book of the Year and Non-fiction categories, *Prairie: A Natural History* is a valuable resource that focuses on the prairie environment.
Suggested Use: Sustainability of Ecosystems
Other Use: English Language Arts 10; English Language Arts 20; Science: Secondary Level; Wildlife Management

Prairies North: Life in Saskatchewan (Periodical). September House Publishing (SHE). Published quarterly. ISSN 1491-3119 ($21.35).

(SK) With a combination of stunning photographs and well-written articles, this journal provides an excellent depiction of Saskatchewan. Previously entitled *Saskatchewan Naturally*, each issue has several themes highlighted by an individual article. Some sample areas covered include recreation, wildlands, communities, people of Saskatchewan, art, and history.
Suggested Use: Sustainability of Ecosystems
Other Use: Canadian Studies; Photographics/Photography; Science: Middle Level; Social Studies: Elementary Level; Wildlife Management

Project WET: Curriculum & Activity Guide (Print-Non-Fiction). The Watercourse (SERM), 1995. 518 p. No order number is required. ($FREE pbk.).

(SK) The *Project WET Curriculum & Activity Guide*, a companion to *Project WILD*, is a collection of innovative, water-related lessons and mini-units that are teacher friendly and fun! The activities incorporate a variety of formats including whole body activities, large and small group learning, co-operative learning, laboratory investigations, local and global topics, and involvement in community service projects.

People's relationships to water are a major theme of *Project WET*. Other activities include water's chemical and physical properties, quantity and quality issues, aquatic wildlife, wetlands, ecosystems, and management strategies. The activities promote critical thinking and problem-solving skills and help provide young people with the knowledge and experience they will need to make prudent decisions regarding water resource use. Teachers are encouraged to select activities from this support tool that align with curriculum objectives and that meet the needs of students.

The *Project WET Curriculum and Activity Guide* is only available through *Project WET* workshops. These six-hour workshops include an opportunity to experience the activities and to plan how to use them in the classroom. A Saskatchewan background supplement will be provided to educators in addition to the activity guide. A modest registration fee will cover workshop materials and expenses. To arrange a workshop, please contact the *Project WET* Co-ordinator at 787-5242.
Suggested Use: Sustainability of Ecosystems; Teacher Reference
Other Use: Science: Elementary Level; Science: Middle Level; Science: Secondary Level

Project WILD Activity Guide (Print-Non-Fiction). Canadian Wildlife Federation (CNW), 2002. 468 p. ISBN 1-55029-082-7 ($FREE pbk.).

(CAN) The 2002 version of the *Project WILD Activity Guide* once again features a wealth of engaging activities designed to develop awareness, knowledge, skills, and responsible behaviour towards wildlife and the environment. Through many of the activities, students are engaged in informed decision-making in which they consider the impact of their actions on the ecosystem. Each multigrade activity is clearly

described including objectives, method, background information, materials, procedures, and extension and evaluation ideas. The activity guide contains seven sections: "Awareness and Appreciation," "Diversity of Wildlife Values," "Ecological Principles," "Management and Conservation," "People, Culture, and Wildlife," "Trends, Issues, and Consequences," and "Responsible Human Actions." Teachers are encouraged to select and adapt activities from this support tool that align with curriculum objectives and that meet the needs of students.
Project WILD activity guides are free to teachers attending a *Project WILD* workshop. These workshops provide an opportunity to experience the activities and to plan how to use them in the classroom. A modest registration fee will cover workshop materials and expenses. Contact the *Project WILD* co-ordinator in Regina at 787-5242 for more details.
Suggested Use: Sustainability of Ecosystems; Teacher Reference
Other Use: Science: Elementary Level; Science: Middle Level; Science: Secondary Level

Saskatchewan Birds (Print-Non-Fiction). Smith, Alan. Lone Pine Publishing (LPP), 2001. 176 p. ISBN 1-55105-304-7 ($17.95 pbk.).

(SK) Over 145 species of birds are described in this well-organized and colourful resource. The book is divided into major categories such as diving birds, waterfowl, birds of prey, and owls. Within these sections, individual birds are covered in one page. Each entry contains an excellent drawing, a map, and a concise description of the bird's habits and characteristics. The introduction provides background information about the top birding sites and sanctuaries in Saskatchewan as well as a discussion about the province's ecological regions and the types of birds found in each area. The size and format make it easy to take along on field trips. An index is included.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Saskatchewan Trails: A Guide to Nature Walks and Easy Hikes. 2nd ed. (Print-Non-Fiction). Karpan, Robin and Karpan, Arlene. Parkland Publishing (PKL), 2001. 288 p. ISBN 0-9683579-4-6 ($19.95 pbk.).

(SK) Now there is a new edition of this well-organized, practical resource that invites readers to take a hike! It provides an informative, detailed guide to over 100 trails. The trails are located throughout Saskatchewan's various landscapes including prairie grasslands, aspen parkland, boreal forest, shield country, badlands, lakelands, and river valleys. The information on each trail includes distance, time to allow for the hike, access, facilities, and cautions. This resource would serve as a valuable guide for teachers when choosing a location for an appropriate field trip. Numerous black-and-white photographs and maps support the reader friendly text. Included are a table of contents and an index.
Suggested Use: Sustainability of Ecosystems
Other Use: Forestry Studies; Science: Middle Level; Science: Secondary Level; Wellness 10; Wildlife Management

Saskatchewan Wayside Wildflowers (Print-Non-Fiction). Kershaw, Linda. Lone Pine Publishing (LPP), 2003. 160 p. ISBN 1-55105-354-3 ($16.95 pbk.).

(SK) Over 112 Saskatchewan wildflowers, divided into five broad groups, are described in this resource. Each of the one-page layouts contains an area picture as well as a close-up colour photograph to assist with identification. The concise text and pertinent facts combined with the logical organization make this an excellent resource. Tips for identifying wildflowers and distinguishing them from noxious weeds and dangerous wildflowers is included in the introduction. An index is provided.
Suggested Use: Sustainability of Ecosystems
Other Use: Horticulture; Science: Elementary Level; Science: Middle Level; Science: Secondary Level

Saskatchewan's Native Prairie: Statistics of a Vanishing Ecosystem and Dwindling Resource (Print-Non-Fiction). Hammermeister, Andrew, Gauthier, David and McGovern, Katherine. Native Plant Society of Saskatchewan (NSS), 2001. 17 p. No order number is required. ($FREE booklet).

(SK) This useful booklet presents information on Saskatchewan's native prairie. It briefly examines the impact of settlement on the region, and the importance of the prairie landscape to culture and heritage. Maps, charts, and graphs, focusing on the southern half of the province, illustrate prairie ecoregions, vegetation cover, and soil capability. Threats to the prairie landscape are identified, as well as conservation initiatives. Numerous sources of further information are provided.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Science at the Edge Series (Print-Non-Fiction). Please refer to the title: *Global Warming.*

Science in the News: Physical Science (Video). Holt, Rinehart & Winston (HRW), 2000. 60 min. ISBN 0-03-055602-3 ($54.85 U.S.).

This video consists of 24, two to three-minute video segments showing students the relevance of physical science in everyday life. Each segment consists of a CNN news report related to various physical science topics. The segments could be used to introduce topics, spur class discussion, or to exemplify real-life applications of science.

The video is accompanied by a teacher guide.
Suggested Use: Motion
Other Use: Science: Secondary Level

Science Screen Report Series *(Video).* Please refer to the title: *Earth Science: Learning About Earth's Weather.*

Science Spectra Book Series (Print-Non-Fiction). Please refer to the title: *Weather Rage.*

Science.Connect 1 (Print-Non-Fiction). Colbourne, Helen, et al. McGraw-Hill Ryerson Limited (MHR), 2002. 322 p. ISBN 0-07-089092-7 ($76.41 hdc.).

(CAN) This resource deals with a wide range of science topics from physical, ecological, and environmental perspectives. The simplified text is concise and supported with photographs, diagrams, cartoons, charts, and graphs. Each chapter offers real-life connections that students will relate to, suggestions for interesting activities, and thought-provoking questions. An extensive glossary and an index are included, as well as a multimedia CD-ROM. Two of the four units support the new Science 10 Curriculum.
Suggested Use: Chemical Reactions; Sustainability of Ecosystems

Science.Connect 2 (Print-Non-Fiction). Colbourne, Helen, et al. McGraw-Hill Ryerson Limited (MHR), 2003. 318 p. ISBN 0-07-089094-3 ($84.54 hdc.).

(CAN) This resource deals with a wide range of science topics from physical, ecological, and environmental perspectives. The simplified text is concise and supported by photographs, diagrams, cartoons, charts, and graphs. Interesting investigations from selected units engage students in inquiry related to chemical reactions in everyday life and to motion in the field of transportation. A glossary and an index are included, as well as a multimedia CD-ROM containing interactive applets to develop understanding of abstract concepts. This student textbook deals with two of the units from the Science 10 Curriculum.
Suggested Use: Chemical Reactions; Motion

Sciencepower 10: Science, Technology, Society, Environment (Print-Non-Fiction). Grace, Eric, et al. McGraw-Hill Ryerson Limited (MHR), 2000. 633 p. Order numbers follow.

(CAN) Recommended components include the following:

Student Text
ISBN 0-07-560363-2 ($80.06 hdc.)
Teacher's Resource - Ontario Edition
ISBN 0-07-560364-0 ($179.59 binder)
Assessment and Evaluation Handbook
ISBN 0-07-087556-1 ($123.23 pbk.)
Black-line Masters - Ontario Edition
ISBN 0-07-560778-6 ($240.65 loose-leaf)
Computerized Assessment Bank - Ontario Edition
ISBN 0-07-560779-4 ($240.65 CD-ROM)
Video
ISBN 0-07-086491-8 ($185.46)
Illustrations - Ontario/Atlantic Edition
ISBN 0-07-087557-X ($185.46 CD-ROM).

The student text offers four major units. The lessons in each unit include investigations, inquiry activities, mini-essays on Canadian scientists, review questions, and suggested websites. The print is amply supported by illustrations and graphs. Five appendices include "Classifying Living Things," "Using Resources and the Internet Effectively," "Periodic Table of the Elements," "Properties of Common Substances," and "Weather Map Symbols." A table of contents, a science and technology skills guide, a glossary, and an index are provided.

The teacher's resource binder that was designed for Ontario schools offers planning information, background science information, assessment tools and strategies, and transparencies.

A package of 500 black-line masters that was designed for Ontario schools is available. This package includes investigations, assessment rubrics, concept maps, diagrams, and more.

A computerized assessment bank that was designed for Ontario schools and an assessment and evaluation handbook are available.

The video modules provide short clips that were compiled from the daily news magazine program called *@discovery.ca*. These clips were chosen to support Grades 7-10 science. Teacher's notes accompany the video.

A CD-ROM of illustrations accompanied by user's note is available. This resource was designed for Ontario/Atlantic schools.

Rather than purchasing a class set of this learning resource, it is advisable to purchase a few copies along with various other resources such as videos, CD-ROMs, charts, posters, and print materials.

Note: *Sciencepower 10* is also available in French.
Suggested Use: Chemical Reactions; Motion; Sustainability of Ecosystems; Weather Dynamics
Initiatives: Aboriginal Content and Perspectives; Career Development; Gender Equity; Multicultural Content and Perspectives

Seals and the Scientists Who Study Them (Video). (The Passport to Antarctica Series). Passport to Knowledge (CLC), 2002. 15 min. Order no. 5-5078 ($39.95). Circulating copy - Order no. 5-5078c ($69.95).

This video shows the life of seals in the Antarctica and their adaptation to extreme conditions through natural selection. There is an equally strong focus on the research processes of the scientists who are studying the seals.

An online guide accompanies this resource, and may be viewed at http://passporttoknowledge.com/antarctica.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level; Science: Secondary Level

Seas of Grass (Video). (Journey to Planet Earth: Season Two Series). Screenscope Inc. (SCRE), 2003. 25 min. No order number is required. ($149.00 U.S.).

Focusing on grassland regions around the world, this video presents five case studies that outline the serious threats facing these ecosystems. Examples include Inner Mongolia,

Kenya, South Africa, Argentina, and the American West. This video has a strong STSE perspective, and is very relevant to Saskatchewan.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Seeds of Change (DVD). Media Group **(MGR)**, 2002. 60 min. No order number is required. ($19.95).

(SK) In this program, a group of Saskatchewan farmers visits Costa Rica to examine their agricultural system for the purpose of bringing back ideas about small-scale organic farming. By changing the paradigm, it is hoped that providing an alternative agricultural sector in Saskatchewan would help to revitalize the economy.
Suggested Use: Sustainability of Ecosystems
Other Use: Agriculture Studies; Canadian Studies; Economics; Science: Secondary Level

Stars Above, Earth Below: American Indians and Nature (Print-Anthology). Bol, Marsha C., ed. Rinehart, Roberts Pub. Inc. (NBN), 1998. 272 p. ISBN 1-57098-198-1 ($19.95 pbk.).

This book is a collection of essays that explores the relationship between humans and the environment through six major themes in aboriginal societies: origin stories, astronomy, culture and landscape, animal, botany, and nature. *Stars Above Earth Below: American Indians and Nature* is a very interesting authentic presentation of photographs of artifacts with oral and written stories. This resource is easy to read and would appeal to students as a source for further research on the varied themes. This book includes an index.
Suggested Use: Sustainability of Ecosystems;
Other Use: Native Studies: Grade 10; Native Studies: Grade 11; Science: Secondary Level
Initiative: Aboriginal Content and Perspectives

State of the World 2004: A Worldwatch Institute Report on Progress Toward a Sustainable Society. 1st ed. (Print-Non-Fiction). Assadourian, Erik, et al. Norton, W.W., & Co. (CDS), 2004. 245 p. ISBN 0-393-06020-9 ($51.00 hdc.). ISBN 0-393-32539-3 ($25.50 pbk.).

Designed to generate discussion, this challenging resource uses statistics and details about environmental issues to expose the problems of a consumer society. Written from a global perspective on sustainability, it identifies negative outcomes of excessive consumption. A goal of this resource is to help readers recognize the direct impact that individual actions can have on the global environment.
Suggested Use: Chemical Reactions; Sustainability of Ecosystems
Other Use: Science: Secondary Level

Stormy Weather: 101 Solutions to Global Climate Change (Print-Non-Fiction). Dauncey, Guy and Mazza, Patrick. New Society Publishers (NSP), 2001. 271 p. ISBN 0-86571-421-5 ($27.95 pbk.).

In a series of concise, easy-to-understand readings, the authors of this book explain the causes of global climate change. They then proceed to suggest 101 practical solutions that individuals, businesses, communities, and governments can implement in order to make a difference. Numerous websites offer possibilities for further investigation to support the concrete ideas presented.
Suggested Use: Sustainability of Ecosystems; Weather Dynamics

Threats to Water Availability in Canada (Print-Non-Fiction). National Water Research Institute and Meteorological Service of Canada. (NWRI Scientific Assessment Report Series and ACSD Science Assessment Series). Environment Canada - Science Liaison Branch (ENW), 2004. 128 p. ISBN 0-662-35826-0 ($FREE pbk.).

(CAN) Based on currently available research, this peer-reviewed resource presents a comprehensive examination of factors threatening Canada's water resources. Statistics and scientific arguments are examined in relation to the social structure of laws and

regulations, as well as to predictions of future issues and concerns. Fifteen chapters address threats to water availability including the following: water allocation; dams, reservoirs and flow regulation; droughts; floods; municipal water supply and urban development; manufacturing and thermal energy demands; land-use practices and changes involving agriculture, forestry, mining, and petroleum production; and, the effects of climate variability and change on groundwater resources, rivers and streams, lakes and reservoirs, wetlands, and the cryosphere. No longer available in print, this excellent source of background information for teachers may be accessed in pdf format at http://www.nwri.ca/threats2full/ThreatsEN_03web.pdf
Suggested Use: Sustainability of Ecosystems; Weather Dynamics; Teacher Reference
Other Use: Science: Secondary Level

Turning Down the Heat: The New Energy Revolution (Video). National Film Board of Canada (NFB), 1999. 49 min. Order no. C9199 020 ($49.95).

(CAN) Global warming and climate change in Canada and around the world are profiled in this excellent National Film Board video. As overconsumption and the burning of fossil fuels continue to create environmental problems, the need for alternative sources of energy is growing. Narrated by David Suzuki, this video examines alternative power sources such as solar, biogas, wind, and hydrogen fuel cells.
Suggested Use: Weather Dynamics
Other Use: Energy and Mines; Social Studies 20/History 20

25 Saskatchewan Science & Technology Achievements (Print-Non-Fiction). Saskatchewan Industry and Resources (SKM), 2005. 132 p. No order number is required. ($FREE pbk.).

(SK) This excellent resource highlights Saskatchewan's scientists and researchers, and the impact of their achievements and ongoing research in science and technology. It features 25 short articles describing some of Saskatchewan's "firsts" in various fields including general research and development, agriculture and biotechnology, medical research, information technology and telecommunications, and energy. Content was selected based on the impact of the achievement in its particular field or industry, the impact on Saskatchewan's quality of life and economy, the scope of the achievement (provincial, national, international), and the relevance to high school science students.

Two free copies of this resource were distributed to all high schools in May 2005. Each of the articles may also be accessed online at www.sk25.ca.
Suggested Use: General Reference
Other Use: Science: Secondary Level
Initiative: Career Development

Understanding Our Environment. 2nd ed. (Print-Non-Fiction). Dunlop, Stewart and Jackson, Michael. Oxford University Press (OUP), 1996. 234 p. ISBN 0-19-541241-9 ($67.44 hdc.).

This second edition of *Understanding Our Environment* addresses environmental issues that face our world today. It is divided into three units: "Ecosystems and the Earth's Environment," "The Environment," and "Management and Conservation." The print is enlivened with colour and black-and-white photographs, tables, and graphs. This text provides three levels of activities to meet the varying capabilities of students. Included are a table of contents, a comprehensive glossary, and an index.
Suggested Use: Sustainability of Ecosystems

Understanding the Weather (Video). Educational Video Network **(MGR)**, 2000. 25 min. Dup. order no. V3254.

This program explores the various factors that create weather systems. It also addresses the importance of studying and predicting weather.

A brief study guide accompanies the video.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

U-Turn (Video). Tabata Productions Ltd. **(MGR)**, 2000. 22 min. Dup. order no. V1351.

Regular bombardments by the media urge viewers to both consume and conserve, creating a mixed and confusing message. In order to foster better conservers, it is important to address "why we consume" and not simply "how." *U-Turn*, with teen host Severn Cullis Suzuki, clearly illustrates for a youthful audience the environmental problems created by consumption. It offers practical solutions for reducing solid wastes, eliminating hazardous household products, conserving energy and water, and improving air quality while examining the underlying role that the media plays in influencing our values and how we live.
Suggested Use: Sustainability of Ecosystems

Wapusk: White Bear of the North (Print-Non-Fiction). Grambo, Rebecca and Fast, Dennis. Heartland Associates Inc. (HLA), 2003. 112 p. ISBN 1-896150-32-2 ($29.95 hdc.).

(CAN) This resource outlines some of the challenges faced by the polar bear, or wapusk, white bear of the north. Approximately 60 per cent of the world's polar bear population inhabits Canada's Arctic region. Despite the seemingly remote location, environmental dangers such as toxic pollutants and global warming encroach on, and threaten this majestic species. Vivid photography captures the life cycle of the polar bear within its natural environment.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Middle Level
Initiative: Aboriginal Content and Perspectives

Water and Wetland Plants of the Prairie Provinces (Print-Non-Fiction). Lahring, Heinjo. Canadian Plains Research Center (CPRC), 2003. 326 p. ISBN 0-88977-162-6 ($34.95 pbk.).

(SK) This excellent field guide presents identification keys, descriptive information, and colour photographs about water and wetland plants in Saskatchewan, Alberta, Manitoba, and the northern United States. It provides a relevant, easy-to-use guide for field trips to wetland ecosystems.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

Weather (Print-Non-Fiction). Kahl, Jonathan D. W. (National Audubon Society First Field Guide Series). Scholastic Inc. (SCH), 1998. 159 p. ISBN 0-590-05488-0 ($12.99 pbk.).

A useful resource for identifying various weather anomalies, this colourful field guide provides a general overview and introduction to the topic of weather. Excellent photography depicts examples of severe weather, clouds, and cloud formation. Brief explanations accompany the visuals, and weather-related terms are included in the glossary.
Suggested Use: Weather Dynamics

The Weather (Print-Non-Fiction). Lynch, John. Firefly Books Ltd. (FIR), 2002. 240 p. ISBN 1-55297-640-8 ($35.00 hdc.). ISBN 1-55297-639-4 ($29.95 pbk.).

This beautifully illustrated book captures the power of nature as expressed through weather phenomena. The author combines interesting articles with over 200 photographs to tell weather stories from around the world. The articles include historical information, amazing weather events such as hurricanes, sandstorms, monsoons, avalanches, and information on the science of meteorology. Weather's influence on humanity is examined throughout. This is an excellent resource.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

Weather: A Visual Guide (Print-Non-Fiction). Buckley, Bruce, Hopkins Edward J. and Whitaker, Richard. Firefly Books Ltd. (FIR), 2004. 303 p. ISBN 1-55297-957-1 ($29.95 hdc.).

Filled with effective photography, this visual guide to weather is an excellent resource. Spanning a wide range of weather-related topics, the book explains how weather works, including phenomena such as hurricanes,

tornadoes, floods, fires, and droughts. In addition, it examines current research on climate change, and it explores the effects of climate on all living things. With each topic, the authors provide a brief explanation accompanied by diagrams, graphs, photographs, and informative captions. A "Fact File," a glossary, and an index are included.
Suggested Use: Weather Dynamics
Initiative: Career Development

Weather: Dragons of Chaos (Video). (The Nature of Things Series). Canadian Broadcasting Corporation (CBC), 2000. 53 min. Order no. WOF-99-08 ($125.00).

(CAN) This program touches on many different aspects of weather beginning with explanations of basic weather principles. What is weather? What factors influence and drive it? How do weather systems form? How do scientists predict weather? Severe weather, its causes, and its effects on society are discussed, including recent severe weather events in Canada such as the Edmonton tornado, the 1998 ice storm in Quebec, and the flooding of the Saguenay River in Manitoba.
Suggested Use: Weather Dynamics

Weather Rage (Print-Non-Fiction). Reynolds, Ross. (Science Spectra Book Series). Taylor & Francis Group, LLC. (CRCP), 2003. 112 p. ISBN 0-415-36981-9 ($84.95 U.S. hdc.). ISBN 0-415-36982-7 ($28.95 U.S. pbk.).

This student friendly resource explains the development of various types of severe weather. Using charts, diagrams, and examples of actual weather events, it explains a range of wild weather observed around the world. The five chapters include commonly used meteorological scales and tools that measure and describe weather phenomena.
Suggested Use: Weather Dynamics

Wet (Video). (Planet Weather Series). BBC Enterprises **(MGR)**, 2002. 50 min. Dup. order no. V3306.

Water is the centre of all our weather, causing rain, storms, monsoons, and floods. Viewers visit the wettest place in Europe, Bergen, Norway where it rains 265 days a year; and, the wettest place in the world, India, where 25 billion tons of water fall each day during the monsoon period. Next, following the Thermohaline Conveyor (density driven, global ocean circulation, sometimes called the Conveyor Belt, which moves warm water towards the poles and cold bottom waters towards the Equator), viewers observe the warm seas of the Caribbean and the great power of floods. The devastating effects of this country were seen in the Honduras in 1998, where 165 cm of rain fell in one week. In contrast, Texas receives little rain, and farmers hope to find ways to manufacture it.
Suggested Use: Weather Dynamics

Wetland Explorer: Digital Expeditions Next Best to Nature (Kit). EarthSeeker Multimedia Inc. (ESM), 2002. ISBN 0-9688916-0-2 ($299.00).

(SK) This interactive program allows students to explore the diversity of life forms found in marshes. It offers three levels of difficulty for various users: novice, hot shot, and pro. *Wetland Explorer* features the following:

- 99 telephoto shots of areas within five different wetlands
- over 5000 hotspots with choices of specific places at each site
- 340 full-screen photographs including many close-up views of marsh life
- 60 minutes of colour video on 54 topics
- 80 sounds plus stereo sound tracks that users can enable
- printable pictures that can be pasted into students' personal journals
- a puzzle component that monitors the exploration experience.

An extensive guidebook in binder format accompanies the CD-ROM. It offers directions, classroom applications, exploration tools (e.g., dip net, binoculars), checklists, study notes, and much more. Included is a table of contents.

Suggested Use: Sustainability of Ecosystems
Other Use: Science: Elementary Level; Science: Middle Level; Science: Secondary Level; Wildlife Management

What Makes Earth's Weather and Climate? (Video). (The Passport to Weather and Climate Series). Canadian Learning Company Inc. (CLC), 2000. 15 min. Order no. 5-5038 ($69.95).

This American video examines the fundamental components of weather and climate: temperature, pressure, and air in motion. The movement of air and water to conduct heat is a major theme.

A teacher's guide is available from www.canlearn.com/guides/5-50380.pdf.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

Wind (Video). (Planet Weather Series). BBC Enterprises **(MGR)**, 2002. 50 min. Dup. order no. V3307.

This program looks at how weather works, and at the intricate connections between weather conditions in different parts of the world. It explores the journey that winds take from their birth at the equator to the North Pole. The program explains that wind brings relief from heat but also causes devastation through tornadoes and typhoons. Viewers learn how Hurricane Andrew caused devastation in the United States and how the fastest wind on earth, the jet stream, was put to use by the Japanese in World War II. As well, viewers see how wind can turn from a cooling breeze on a summer day to a devastating tornado and how a wind from space can cause considerable damage. This video may be used to initiate discussion about how wind can be harnessed to benefit society.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

The Winds of Change: Climate Change in the Prairie Provinces (Poster). Natural Resources Canada (NRC), 2001. ISBN 0-360-18357-9 ($FREE).

(CAN) This poster on climate change in the prairie provinces can be viewed at www.adaptation.nrcan.gc.ca/posters or www.nrcan.gc.ca/gsc/education_e.html. Posters on climate change in other regions of Canada can also be viewed at these addresses.

The Geological Survey Department of the Federal Government generously donated copies of *Winds of Change* to Saskatchewan schools in 2001. Additional copies are available from Natural Resources Canada.

Note: These posters are also available in French.
Suggested Use: Weather Dynamics
Other Use: Science: Middle Level

The World According to Pimm: A Scientist Audits the Earth (Print-Non-Fiction). Pimm, Stuart L. McGraw-Hill Ryerson Limited (MHR), 2001. 285 p. ISBN 0-07-137490-6 ($39.95 hdc.).

Conservation biologist, Stuart Pimm, leads the reader on a tour of the earth from an ecological perspective. Using a conversational writing style, he skillfully translates complex ideas, data, and statistics into everyday language. Pimm assumes the role of "investment banker of the global, biological accounts" as he assesses the impact of human activity on the Earth and the resulting long-term implications. This book promotes a global perspective of ecology and a positive outlook on the future of the planet.
Suggested Use: Sustainability of Ecosystems
Other Use: Science: Secondary Level

World Almanac Video's Guide to Extreme Weather Series (Video). The Learning Channel (VEC), 1997-2001. 25-26 min. Order numbers follow.

Recommended titles in this series include the following:

Extreme Weather: Introduction: Part 1
ISBN 1-930545-45-2 ($49.95)

Extreme Weather: Introduction: Part 2
ISBN 1-930545-46-0 ($49.95)
A Geographical Guide to Extreme Weather
ISBN 1-930545-50-9 ($49.95)
Lightning
ISBN 1-930545-49-5 ($49.95)
Polar Weather
ISBN 1-930545-48-7 ($49.95)
Tornadoes
ISBN 1-930545-47-9 ($49.95).

This video series provides an in-depth look at extreme weather conditions including their development and their consequences. It introduces viewers to technological devices used for tracking storms and for issuing warnings prior to the occurrence of the natural event. First-hand accounts from survivors of extreme weather reveal the frightening impact of such events. Topics include monsoons, flash floods, tornadoes, hurricanes, lightning, polar weather, weather forecasting, and weather records.
Suggested Use: Weather Dynamics

Index of Initiatives

Index of Initiatives

Please note that the titles in this list are truncated. The complete titles appear in the citations for each learning resource.

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Nelson Science 10: Concepts and

Aboriginal Content and Perspectives

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Stars Above, Earth Below: American
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Career Development

Beyond Organic: The Vision of Fairview
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Nelson Science 10: Concepts and
Sciencepower 10: Science, Technology,
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Weather: A Visual Guide

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Index of Suggested Uses

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Unit Index

Chemical Reactions

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Chemical Elements: From Carbon to
The Genie in the Bottle: 64 All-New
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Nelson Science 10: Concepts and
The Periodic Table
Periodic Table of the Elements
Physical Science: Concepts and Challenges
Science.Connect 1
Science.Connect 2
Sciencepower 10: Science, Technology,
State of the World 2004: A Worldwatch

Motion

Addison Wesley Science 10
Forces and Motion
Motion, Force and Gravity
Nelson Science 10
Nelson Science 10: Concepts and
Physical Science: Concepts and Challenges
Science in the News: Physical Science
Science.Connect 2
Sciencepower 10: Science, Technology,

Sustainability of Ecosystems

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Aquatic Invaders: The Rising Tide of
Below Zero
Beyond Organic: The Vision of Fairview
Biomes: A Five-Part Series
Biomes Atlases Series
Biophysical Environment: Ecosystems and
Bringin' Back the Browns
Can We Live Sustainably: An Overview of
Cause and Effluent
Crapshoot: The Gamble With Our Wastes
Decay and Renewal
The Earth Is Faster Now: Indigenous
Ecosystems and the Cycles of Nature
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Fresh Waters Flowing: Biological
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Global Warming
The Great Northern Kingdom: Life in the
Greenhouse Earth: An Uncontrolled
Heard Island
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Native Plants, Water and Us!
Native Science: Natural Laws of
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Nelson Science 10: Concepts and
The No-Nonsense Guide to Climate Change
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Prairie: A Natural History
Prairies North: Life in Saskatchewan
Project WET: Curriculum & Activity Guide
Project WILD Activity Guide
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Saskatchewan Trails: A Guide to Nature
Saskatchewan Wayside Wildflowers
Saskatchewan's Native Prairie: Statistics
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Sciencepower 10: Science, Technology,
Seals and the Scientists Who Study Them
Seas of Grass
Seeds of Change
Stars Above, Earth Below: American
State of the World 2004: A Worldwatch
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Threats to Water Availability in Canada
Understanding Our Environment
U-Turn
Wapusk: White Bear of the North
Water and Wetland Plants of the Prairie
Wetland Explorer: Digital Expeditions
The World According to Pimm: A Scientist

Weather Dynamics

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Atmospheric Circulation
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Climate, Nature, People: Indicators
Clouds and Patterns of Weather
Cold

Creating a Climate of Change: Resources
The Daily Telegraph Book of the Weather:
Discover Nature in the Weather: Things
The Earth Is Faster Now: Indigenous
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Earth Science: Learning About Earth's
Earth's Variable Climate
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Firefly Guide to Global Hazards
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Global Warming and the Greenhouse Effect
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Nelson Science 10: Concepts and
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The Weather
Weather: A Visual Guide
Weather: Dragons of Chaos
Weather Rage
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What Makes Earth's Weather and Climate?
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Teacher Reference

Addison Wesley Science 10
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The Earth Is Faster Now: Indigenous
Henry's Handbook of Soil and Water
Is Global Warming a Threat?
Nature Projects for Young Scientists
Our Environment: A Canadian Perspective
Politics of the Wild
Project WET: Curriculum & Activity Guide
Project WILD Activity Guide
Threats to Water Availability in Canada

Media Index

Media Index

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Can We Live Sustainably: An Overview of the Ecosystems and the Cycles of Nature

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Seeds of Change

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Poster

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The Earth Is Faster Now: Indigenous
Earth Science: Concepts and Challenges
Extreme Canadian Weather: Freakish Storms
Firefly Guide to Global Hazards
The Genie in the Bottle: 64 All-New
Global Warming
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Hush Hush: The Dark Secrets of
Is Global Warming a Threat?
Native Plants, Water and Us!
Native Science: Natural Laws of
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Nelson Science 10: Concepts and
The No-Nonsense Guide to Climate Change
Our Environment: A Canadian Perspective
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Politics of the Wild: Canada and
Prairie: A Natural History
Project WET: Curriculum & Activity Guide
Project WILD Activity Guide
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Saskatchewan Trails: A Guide to Nature
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Science.Connect 1
Science.Connect 2
Sciencepower 10: Science, Technology,
State of the World 2004: A Worldwatch
Stormy Weather: 101 Solutions to Global
Threats to Water Availability in Canada
25 Saskatchewan Science & Technology
Understanding Our Environment
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Water and Wetland Plants of the Prairie
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Weather: A Visual Guide
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The World According to Pimm: A Scientist

Video

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On Nature's Terms
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Plants Out of Place: Facing the Green
The Pond: Community Ecology in Action
Science in the News: Physical Science
Seals and the Scientists Who Study Them
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